

PATENT

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FRENCH PETROLEUM INSTITUTE

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CATALYST IN THE FORM OF GRAINS COMPRISING AN ACIDIC POROUS  
CORE SURROUNDED BY A UNIFORM EXTERNAL LAYER

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**ABSTRACT**

The invention relates to a catalyst that comes in the form of grains, each grain consisting of a core covered by at least one external layer, the core consisting of an acidic porous solid and having a size of between 0.1 micron and 0.4 millimeter, in which the external layer has a uniform thickness with a uniformity criterion  $C$ , which is less than 0.30, whereby said uniformity criterion  $C$  is defined as being equal to an average, on a number  $N$  of catalyst grain samples, of the ratio of the difference between the maximum thickness,  $E_{i_{\max}}$ , of the external layer and the minimum thickness,  $E_{i_{\min}}$ , of this same layer to the average of these two thicknesses  $E_{i_{\max}}$  and  $E_{i_{\min}}$ .